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(54) Title: METHOD AND COMPOSITIONS FOR INHIBITING FORMATION OF HYDROCARBON HYDRATES

(57) Abstract: A method for inhibiting formation of hydrocarbon hydrates in mixtures of water and a hydrate-forming guest molecule has been discovered that involves adding a composition to the mixtures in an amount that is effective in inhibiting formation of the hydrocarbon hydrates under conditions otherwise effective to form the hydrocarbon hydrates in the absence of the reaction product. The composition includes at least one dendrimeric compound having a number average molecular weight of at least 1,000 atomic mass units (amu); and at least one small molecular weight species having less than 1,000 amu, selected from the group consisting of polyalkyleneimine, polyallylamine, starch, sugars, and polymers or copolymers of vinyl alcohol or allyl alcohol; and, optionally, at least one surfactant.

# INTERNATIONAL SEARCH REPORT

International Application No

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**A. CLASSIFICATION OF SUBJECT MATTER**  
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According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E218

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

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**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

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Information on patent family members

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